An Essay on Scarlatina. Respectfully Submitted to the Faculty of the Homoeopathie Medical College of Rennsylvania. On the First of February 1859. For the Begree of Doctor ife Medicine, Louis P, Ehrman, Kentucky.

## Scarlatina,

This is a contagious eruptive fever characterized by inflammation of the fauces and a peculiar searlet eruption of the skin, making its appearance generally on the second day of the disease, and ending in desquamation of the cutule from the sixth to the eighth day. Scarlatina in its simple form is not as a general rule attended with much danger, but runs its course mildly and terminates in convalesence in five or six days. In the graver forms however inflammations and congestions frequently superviene soon after the first attack; Sloughing, gangrene, and disorganization of the throat and larynx will almost always set in, if not properly treated. On the fall and winter of the year dearlet fever is much more frequent than in the summer months, it attacks children more fre-

quently than older persons, but none are positively excluded from this disease. The premonitory symp. toms, (which are however not always present) are pains in the limbs and back, langour, and weariness, the febrile stage is ushered in, by a frequent fulse, furred tongue, anorexia, great nausea and vomiting hot dry skin with flushed face, and muscular weakness are frequent symp. toms: delirium, coma, stupor and other disorders of the nervous system develop themselves in the commencement of this affection: the pulse is generally more frequent in this fever than in any other disease of like nature. It frequently rises to 120 or 130 beats in a minute and sometimes even higher. Inflamation or irritation of the faces is a universal symptom which generally appears in the commencement, they are of a red color, and not unfrequently swollen. this

color is not fifty confined to the faces alone but diffuses itself over the interior of the mouth, the tongue is red, at the tip and edges, and coated on its upper surface with a yellowish white fur.

The eryption first presents itself in little red Spots, of a confluent nature, first upon the face, neck, and breast, and then on the trunk and extremities. It desappears on pressure and is of a deeper color in the flexures of the joints. The color resembles a boiled lobster shell. Heat is one of the prominent symptoms, and as indicated by the thermometer, the temperature is often 105° or 106° of Fahrenheit. Constitution is a general symptom: diarrhoea may occur in the advanced stages. Thus the disease runs on to the sixth or eighth day when all these symptoms begin to decline in favorable cases, Desquamation

follows rapidly, the cutiele is thrown offin little seales, where the skin is thick, as in the palm of the hands, and soles of the feet, it may come away in large pieces or molds. Albumen is nearly always detected in the urine, and not unfrequently epithelium from the wriniferous tubules or other parts of the wrinary canal are thrown off. I will now try and describe Cearlatina in its different forms.

This disease is divided into three forms, namely; Searlatina Simplex, S. Anginosa. S. Maligna or Cynanche Maligna.

Gearlatina Gimplex.

This is the least dangerous of all the varieties, and we may say totally devoid of bad consequences, if the patient is not exposed to any cause that can aggravate the symptoms.

We have general debility, shiverings, followed by

flushes of heat, nausea, frequent pulse, thirst loss of appetite, and headache are the principal precursory symptoms. On the second day the eruption appears. in fratches generally , or diffusing themselves uniformly over the skin. On the appearance of this eruption many of the above named symptoms may disappear, and in the course of about five days. the interstices between the patches will be more distinct, the fever will partially abate, and come to a favourable termination unless there is a malignant tendency, intercurrent inflamation or dangerous Seguela.

Scarlatina Anginosa

This form of Searlatina is of a graver type, and is not as manageable as the one just mentioned, it is ushered in with the usual symptoms of the preceding form, but more aggravated, the eruption does not appear quite as early as in the Simple form,

coming usually on the third day, It is less copious and less diffused. sometimes confining itself to one limb, or seathered in patches over the trunk, with healthy shin in the intervening parts. Or it may come out in successive crops succeeding each other. at longer or shorter intervals. The affection of the fauces is also more prominent, and advance with the progress of the disease. Deglutition is difficult and painful, and not unfrequently when liquids are swallowed they return through the nostrils, Upon examination the fauces, tonsils, usula and soft palate are found to be very much swollen, pateles of a concreat exudation are often seen at an early period, covering the surface of the fauces, they are soft and can be seraped off, undernesth the skin presents the usual lived red appearance, common to the mouth in this affection, these membranous exudations may extend even further

down the throat, there odor is very offensive and the patient from swallowing this putrified matter, will not unfrequently have profuse diarrhoea, the discharges from the bowels are sometimes very airid, so as to exerciate the anus. The are red and irritated, and not unfrequently watery as in measles, Himorrhage from the nose also occurs. In the more advanced stages an aerid and excoriating liquid runs from the nose. From the spreading of the inflammation the interior of the nose may become the seat of the disease, upon which hard crusts form, sufficiently obstructing the nasal passages as to prevent breathing through them, the patient then lies with open mouth which in time becomes very dry and annoying, and not unfrequently the lips crack and throw off the epithelium, the respiratory passages may become so much swollen as to impede respiration. In connection with the

internal disease, there is usually swelling of the external parts, The parotids, sub-maxillarys, and lymphatic glands become the seat of inflamation but it is generally confined to the latter. The inflammation may also traverse back through the Eustachian tube in the cavity of the tympanum. The fever and inflammation of the throat, in this form after continues after desquamation has commenced, and recovery is sometimes considerably posponed, when there is much suppuration in the glands of the neck or any secondary affection, which may occur will add to the danger. Gearlatina Mealigna.

This form is the most dangerous of all the types, and proves almost universally fatal. The futient may be so overfowered, in the beginning, by the poison as to prove fatal almost instantaneously. The pulse is slender, feeble, frequent, and irregular,

great anxiety of mind, oppression, and comatose symptoms are also present, respiration is slow. the skin cold or hot in some places, and cold in others, the face pale and lived. Partial reaction may take place. But resistance soon ceares, and the fratient dies on the second or third day. Where there is greater strength of the system or the disease less violent, the early symptoms are those of the anginose variety, on the appearance of violent initial pain in the loin and extremities, later appearance of the eruption, and disposition to delirium and stupor, we may suspect that the malignant form will speedily develop itself. As the disease advances it assumes a decidedly typhus character. The fulse becomes feeble, the eruptron disappears, the throat is of a deep red, the preudomembranous exudation, in the fauces is of a dirty or dark hue, eschars, and ulcerations after

form in the throat which are of a gangrenous character, the tongue is brown, the breath fetid, dark sordes on the teeth. blood issuing from the fisures in the lips, eschars form upon the sacrum and hips, then a collaps, of the system takes place, involuntary discharges, fluttering pulse, and death takes place in seven or ten days; notwithstanding all these untoward symptoms the patient will in some rare cases get well.

Diagnosis. - Searlatina before the eruption, may be mistaken for many other febrile diseases, whose initial stages are similar to each other, but after the appearance of the eruption, the only disease with which it is liable to be confounded is measles. But from this it can be distinguished, by the eruption appearing on the second day where in measles it appears on the fourth; also by the absence of the catarrhal symptoms, and the rash being of a

more bright red color in Scarlatina, There is also a freediar odor emitted in this disease which is similar to that given off from the cages of wild beasts, It may be confounded with Roseola. These two diseases may be distainguished by its not being accompanied with sore throat, the fever is also much left, in the latter, and the eruption of a brighter colour, and more regular.

Prognosis. In no complaint, is the result more uncertain than in this: therefore to make a quarded prognosis is always prudent. The mildest cases which we might think free from danger, may assume a malignant character, while on the contrary cases apparently dangerous will sometimes end favourably, of Gearlatina is prevalent, we may perhaps sometimes by the mild-nels or severity of the disease in general, rely on, to give a decided prognosis. Come individuals or fam-

ilies have a peculiar predisposition to this disease, and in such it is always more unfavorable than in others. In females during pregnancy the attack is also more severe. Late appearance, deficiency, or sudden retrocession of the eruption are unfavorable symptoms, also a livid hue of the fauces, with gangaene remous, extension of the false membranous exudation in the laryny, himorrhage, continued delirium, involuntary discharges, and great prostration.

Anatomical characters.— Cometimes no Ana

tornical lesion can be found by a post mortim investigation, but generally the skin is red and injected, The kidneys frequently congested or inflamed, and sometimes the aggregated or isolated glands of the intestines are found enlarged and softened.

Cause, The cause of Chearlatina is specific and by most considered contagious, Many persons catch this disease very readily, while others may be

exposed to the contagion, and at the same time be insusceptible to it, Gearlatina not unfrequently occurs epidemically, sometimes confining itself to a small district, town or city, at other times involving a larger community, it also occurs sporadically. The cause has not always the same morbifie influence, in different epidemies, as some are of a milder character than others. The disease generally occurs but once in the same individual, except in some rare instances, a person may be subject to a second attack. Age is no absolute protection against this disease, but children are more liable to its influence than adults. The period of inoculation is from five to ten days.

Sequelae. — Fem diseases leave such a long train of evils behind them as clearlatina. The most formi dable of which is dropsy, this generally develops itself during the desquamative stage. It occurs in the forms

of hydrothorax, acites, hydropericardium and sometimes hydrocephalus, but mostly in the form of anasarea. It generally follows when there is allumen in the wine during the desquamative stage. Abrefses in the parotid and submaxillary glands, are among the most troublesome sequelse, which often exhaust the fratient to such a degree as to prove fatal, or if not fatal greatty to protract convalescence. Abeefses may also open in the ear and thus produce an habitual discharge of pus, and also the eustachian tube may be closed, either by union of ulcerations, or by inflammatory thickening of its coats and obstinate ozena, is not unfrequently produced by Gearlatina. Abeefses in the testes, inflammation of the vagina in females, pleurites, and peritonites may also be the result of this disease.

Prophylacties, \_ The institution of suitable means for the mitigation, or the entire prevention

of a disease, is by far the most important, although the most neglected branch of medical science, which comes under the supervision of the physician, Belladonna has been used with the greatest successas a prophylactic against Scarlatina, and I believe it has been the practice of Homocopathic physicians, to distribute the high dilutions of Belladonna among the families where they are called to preseribe for a case of scarlatina, especially if the disease is likely to become prevalent.

Searlatina commencing with naming the remedies which have been used against the various forms of the disease generally.

The principal remedies are; Bell, Acon, Mure vivus, I prease, Rhus tox, Arsen, and Aburist-acid, also Mitiacid.

Belladonna is indicated by a bright searlet red, smooth skin, commencing about the stomach, extending

over the whole trunk, neck, face, and extremities, in sucression disappearing and quickly returning from pressure; heat redness and bloatedness of the face, burning thirst, furious delirium, dry burning heat, great agitation, with constant tossing, inquietude and continual tossing from side to side. Vertigo with anguish and falling with loss of consciousness, strong pulsation of the temporal arteries, darting pains, with opisthotonous, eyes red from congestion of the vefsels of the conjunctiva, sparkling and convulsed or fixed, glistening and prominent. Bry hard tongue, or if convulsions supervene, accumulation of mucus in the mouth, facels, and throat, with inflammation and swelling of the tonsils and uvula, suppuration of the tousils with mability to swallow liquids, Sensation of choking with spasmodie construction of the throat. Pressur and cramp like constructive pains in the Stomach and

epigastrium principally after eating. Aconite, either alone, or in alternation with Belladonna when the shin is covered with a miliary eruption, or in fratches of a bluish color; or the skin is hot, dry, and imparts a stinging sensation to the hand, when it is laid on the Surface; extreme thirst and restlessness, with hard and frequent pulse; vertigo when erect, weight and fulness in the forehead, with outward pressure, and beatings of the arteries; eyes red, inflamed, and suffused with tears, with pupils diglated, Frace hot and red, lips dry and cracked, dryness of the mouth with burning of tongue; burning and funching in the throat when swallowing: a constant desire to cough, which is of a hourse and croaking character. Thort, difficult and anxious breathing, with sensation of anguish and palpitation. Theeaeuanha will be found very useful if there should be much nausea with occasional vomiting, gastrie uneasiness, hurried and appressed respiration, pale or sallow countenance, great languos, debility dislike and repringancy to food; dry spasmodie cough, with a feeling of spasmodie constriction of the laryne, alvine evacuations of a dysenteric character or sometimes frothy, with chills and shinerings. There is a peculiar dry brown state of the tongue, and lips, which are evacuation, and sealy; nostrils excoriated, and presenting a similar aspect.

Rhus Toxicondendron is recommended when there is much burning and itching, and the cutaneous eruption presents the nettle rash appearance, when the fever borders upon the typhoid type, and is of an intermitent character, with vailent thirst.

Mereurius vivus, when Belladonna and Rhus have been insufficient, and there is the appearance of ulceration about the mouth and throat, with increased Secretion of mucus accompanied with swelling of the

throat and tousils.

Arsenieum is highly indicated if there is absolute exhaustion of strength, sudden emaciation, noctumal paroxysoms of fewer with burning heat, burning face distorted features, cold hands, timpartial thirst, bad temper painful restlessness, and sleeplessness at night, and gnashing of teeth; gangrene of the throat and ulceration of excessively factid matter.

Mearlet pever, if there is dark red flushings of the cheeks, lividity of the neek, and dull redness of the eyes, inequelar and faint efflorescence which changes to a dark red colour, often intermixed with peterbial ularrations of the tonsils and adjoining parts with slough; foetid breath, aerid discharges from the nose, with soreness, chaps, and blisters, about the nose and lips.

Nitrie acid is essential in the malignant form of

Nitrie acid is essential in the malignant form of Learlatina, if it should assume the typhoid

Administration and Dose. The medicine may be administred every one, two, three, or four hours according to the Severity of the case, but as soon as considerable improvement takes place, the intervals may be lengthened.

Ohn reference to the proper dose, it is sufficient to say, that the experience of a majority of practitioners, are in favour of the lower protences; but many may have been perhaps equally the successful with the higher, it must therfore be left to the discrimination of the Physician to choose what attenuation he thinks best.

Diet. From the very commencement of Bearlatina, up to the period of convalereence, the patient generally lottes all kinds of solid or animal food, and therefore no particular direction is necessary to restrain the patient from eating, except from spices, and heating,

stimulating condiments, and all articles of diet or luxury which possess drug or medicinal properties. On the contrary, you will often find it most difficult to suggest such nice preparations of food as will be most likely to invite the patients appetite. For a suitable quantity or quality of nourishment, so as to supply the rapid waste, and impart, and maintain healthy reaction, is as important as it is to be careful not, overload the stomach, indigestible or badly chosen articles of diet. The fratient will generally call for nothing but cold water, and there being no objection to this as a drink, it may be freely allowed; but if this is allowed in too great quantityes there will be no opportunity to introduce nourishment, and the patients strength must rapidly sink. The preparations to satisfy thirst should contain nourishment in the most concentrated form, consistent with a fluid state. Such as rice-water, barley-water tapioca, sago, arrow-root, beef-tea, and among those

which have a solid form, the animal pelies must be selected according to the previousities of the case, and the choice of the patient, As convalescence approaches, soft toast, sea-biseuit softened in water, and other forms of prepared crackers, may be gradually introduced. In no case, should a rigid system of restriction to light but nourishing food be departed from, during convalescence, and indeed for some weeks after the patient fresents the appearance of established health. Exercise in the open air, when it is clear and dry, but not to the extent of fatigue, frequent washing with tepid or cold water, and rubbing dry with a flesh-brush or rough towel, will be an important auxiliary during convalescence, as well as during the treatment of the acute stage.